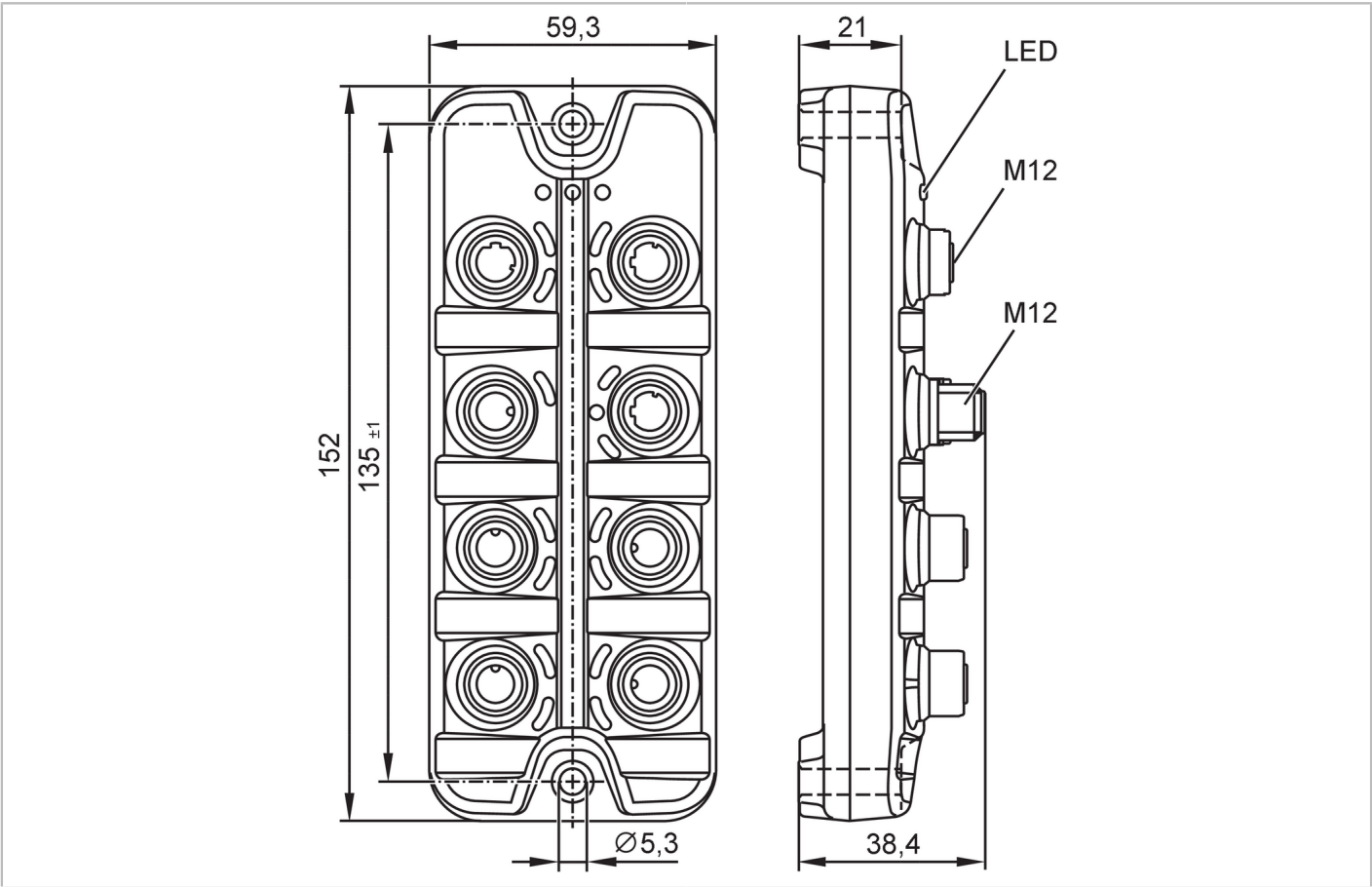


AL1305



IO-Link master with Profinet interface

IO-Link Master DL PN 4P IP69K



Application

Application	hygienic systems; I/O modules for field applications
Daisy-chain function	fieldbus interface

Electrical data

Operating voltage	[V]	20...28 DC; (US ; to SELV/PELV)
Current consumption	[mA]	300...3900; (US)
Protection class		III

Sensor supply US

Max. current load total	[A]	3.6
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Inputs / outputs

Total number of inputs and outputs		8; (configurable)
Number of inputs and outputs		Number of digital inputs: 8; Number of digital outputs: 4

Inputs

Number of digital inputs		8; (IO-Link Port Class A: 4 x 2)
Switching level high	[V]	11...28
Switching level low	[V]	0...5
Digital inputs protected against short circuits		yes

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Outputs			
Number of digital outputs	4; (IO-Link Port Class A: 4 x 1)		
Max. current load per output [mA]	300		
Short-circuit proof	yes		
Interfaces			
Communication interface	Ethernet; IO-Link		
Ethernet - PROFINET			
Transmission standard	100Base-TX		
Transmission rate	100 MBit/s		
Protocol	PROFINET		
Factory settings	IP address: 0.0.0.0		
	subnet mask: 0.0.0.0		
	gateway IP address: 0.0.0.0		
	MAC address: see type label		
	IO-Link Integration Edition 2		
Note on interfaces	CC-C (Conformance Class C) (IRT-Switch)		
	S2 redundancy		
	Netload Class III		
	CiR (Configuration in Run)		
	SNMP (Simple Network Management Protocol)		
	MRP (Media Redundancy Protocol)		
	Supported network topologies: line		
	ring		
	Ethernet - Internet of Things		
	Transmission standard	10Base-T; 100Base-TX	
Transmission rate	10 MBit/s; 100 MBit/s		
Protocol	MQTT JSON		
Factory settings	IP address: 169.254.x.x		
	subnet mask: 255.255.0.0		
	gateway IP address: 0.0.0.0		
	MAC address: see type label		
Note on interfaces	Safety protocol: HTTPS		
IO-Link Master			
Transmission type	COM1 (4,8 kBaud); COM2 (38,4 kBaud); COM3 (230,4 kBaud)		
IO-Link revision	1.1		
Number of ports class A	4		
Operating conditions			
Ambient temperature [°C]	-25...60		
Storage temperature [°C]	-25...85		
Max. relative air humidity [%]	90		
Protection	IP 65; IP 66; IP 67; IP 69K; (operation with stainless steel protective caps: IP 69K)		
Protection rating (NEMA 250)	6P		
Pollution degree	2		
Chemical media	ISO 16750-5	HLP, CC, DB, DC, DD, CA	
	NEMA 250 5.13.1	AA	



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Tests / approvals		
EMC	EN 61000-6-2	
	EN 61000-6-4	
Shock resistance	DIN EN 60068-2-27	
Vibration resistance	DIN EN 60068-2-64 2009-04	
	DIN EN 60068-2-6 2008-10	
MTTF	[years]	97

Mechanical data		
Weight	[g]	320.9
Housing		rectangular
Type of mounting		Backplane mounting
Dimensions	[mm]	152 x 59.3 x 38.4
Material		housing: PA grey; Socket: stainless steel (1.4404 / 316L)
Sealing material		EPDM

Accessories		
Items supplied		Protective cap: 1 x M12, stainless steel, E12542
Remarks		
Remarks		Further information is available in the manual.
Pack quantity		1 pcs.

Electrical connection - Ethernet		
Connector: 3 x M12; coding: D; Contacts: 4; sealing: EPDM		
		

PROFINET X21, X22		
1	TX +	
2	RX +	
3	TX -	
4	RX -	
5	not used	

IoT X23		
1	TX +	
2	RX +	
3	TX -	
4	RX -	
5	not used	

Electrical connection - IO-Link		
Connector: 4 x M12; coding: A; Contacts: 4; sealing: EPDM		
		

IO-Link Port Class A X01...X04		
1	Sensor supply (US) L+	
2	Digital input	
3	Sensor supply (US) L-	
4	C/Q IO-Link	
5	not used	

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IO-Link master with Profinet interface

IO-Link Master DL PN 4P IP69K

Electrical connection - voltage supply

Connector: 1 x M12; coding: A; Contacts: 4



X31	
1	+ 24 V DC (US)
2	not used
3	GND (US)
4	not used